

List of Pages and Lines Exempt from Disclosure

Task Order 23 – Task Order and Modifications		
Task Order 23 Modification 0001 Modification 0002 Modification 0003	Fixed Fee Amounts	Delete the values associated with the fixed fee amounts. These deletions are essential to prevent a competitor from obtaining access to SAIC confidential financial information critical to our proposal effort. Release of this data could give a competitor an unfair advantage in future procurements by allowing them to underbid SAIC.

Task Order 23 - Cost Proposal		
All Pages (2)	All lines	Delete the values associated with the price, total contract amounts, pricing rates, hours, estimated costs and fixed fee amounts. These deletions are essential to prevent a competitor from obtaining access to SAIC confidential financial information critical to our proposal effort. Release of this data could give a competitor an unfair advantage in future procurements by allowing them to underbid SAIC.

Task Order 23 - Task Management Plan		
Page 1	Lines 28-44	These pages describe SAIC's technical approach for accomplishing the NDBC
Pages 2-4	All Lines	
Page 5	Lines 1-27, 43-44	
Page 6	Lines 1-6	

Page 6 Page 8	Lines 36-41 Lines 1-14	Wave Measurement System project SOW. This approach is a result of SAIC's own creative knowledge and experience and is not publicly available. Release of this confidential information would cause substantial harm to SAIC's competitive posture on future procurements by allowing competitors to duplicate this technical approach to SAIC's detriment.
Page 8	Line 20	Delete the names of SAIC personnel. Release of the names of SAIC personnel would allow competitors the ability to contact these personnel for the purpose of pirating them away from SAIC, thereby harming our competitive position.

Task Order 23 - Work Breakdown Structure/GANTT		
(1) WBS, TO-23 – Mod 2 (2) WBS, dated 9/21/05 (3) GANTT, dated 9/21/05 (4) WBS, dated 9/15/05 (5) GANTT, dated 9/15/05	All Pages (4) All Pages (10) All Pages (3) All Pages (3) All Pages (3)	Delete SAIC's estimated hours for the described taskings. This deletion is essential to prevent a competitor from obtaining access to SAIC confidential pricing information critical to our proposal effort. Release of this data could give a competitor an unfair advantage in future procurements by allowing them to underbid SAIC.

DANL

ORDER FOR SUPPLIES OR SERVICES

PAGE 1 OF PAGES 5

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER Sep 2005		2. CONTRACT NO. (if any) QA133005CO1035		6. SHIP TO: WG953023	
ORDER NO. 0023		4. REQUISITION/REFERENCE NO. NWWG9500-5-25641		a. NAME OF CONSIGNEE NATIONAL DATA BUOY CENTER	
ISSUING OFFICE Address correspondence to: WG953023 NATIONAL DATA BUOY CENTER RESOURCES BRANCH /W/OPS53 BUILDING 1100 STENNIS SPACE CENTER, MS 39529-6000 TIMOTHY D. BLACK 228-688-2382				b. STREET ADDRESS RESOURCES BRANCH /W/OPS53 BUILDING 1100	
TO: 00004157		TIN: 953630868		c. CITY STENNIS SPACE CENTER	d. STATE MS
Name of Contractor SAIC		DUNS: 148095086		e. ZIP CODE 39529-6000	
Company Name SCIENCE APPLICATIONS INTERNATIONAL CORPORATION		Street Address 10260 CAMPUS POINT DRIVE MAIL STOP G2		f. SHIP VIA	
City SAN DIEGO		e. State CA		f. Zip 921211578	
ACCOUNTING AND APPROPRIATION See Attached Schedule		BOC:		OBLIGATED AMT: \$143,965.77	
				8. TYPE OF ORDER <input type="checkbox"/> a. PURCHASE <input checked="" type="checkbox"/> b. DELIVERY	
				REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.	
				Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
				10. REQUISITIONING OFFICE WG952023	

1. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED			
2. F.O.B. POINT DESTINATION		14. GOVERNMENT B/L NO.	
13. PLACE OF i. INSPECTION		b. ACCEPTANCE	
		15. DELIVER TO F.O.B. POINT ON OR BEFORE 30 Jun 2006	
		16. DISCOUNT TERMS 00.00% 0 Days Net 30	

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QTY ACCEPT. (g)
	SEE SCHEDULE					

18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages)
21. MAIL INVOICE TO:						
a. NAME CENTRAL ADMIN SUPPORT CENTER /CC						US\$ 143,965.77
b. STREET ADDRESS (or P.O. Box) 601 EAST 12TH STREET						
c. CITY KANSAS CITY		d. STATE MO	e. ZIP CODE 64106			

22. UNITED STATES OF AMERICA BY (Signature) *[Signature]* 9/21/05 TIMOTHY D. BLACK 228-688-2382
(TITLE CONTRACTING/ORDERING OFFICER)

ORDER FOR SUPPLIES OR SERVICES - Continuation

PAGE 2 OF PAGES 5

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER		CONTRACT NO. (if any)		ORDER NO.			
1 Sep 2005		QA133005CQ1035		0023			
NO.	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QTY ACCEPT. (g)	
001	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 1 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009 5020000.25130000 \$ 6,130.62</p>	1	JB	6,130.62	6,130.62		
0002	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 2 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009 5020000.25130000 \$ 55,871.69</p>	1	JB	55,871.69	55,871.69		
0003	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 3 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009 5020000.25130000 \$ 8,090.75</p>	1	JB	8,090.75	8,090.75		

ORDER FOR SUPPLIES OR SERVICES - Continuation

PAGE 3 OF PAGES 5

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 01 Sep 2005 CONTRACT NO. (if any) QA133005CQ1035 ORDER NO. 0023

LINE NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QTY ACCEPT. (g)
0004	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 4 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009 5020000.25130000 \$ 54,173.86</p>	1	JB	54,173.86	54,173.86	
0005	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 5 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009 5020000.25130000 \$ 5,214.83</p>	1	JB	5,214.83	5,214.83	
0006	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 6 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009 5020000.25130000 \$ 8,498.89</p>	1	JB	8,498.89	8,498.89	

ORDER FOR SUPPLIES OR SERVICES - Continuation

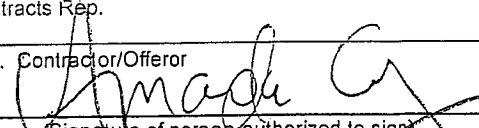
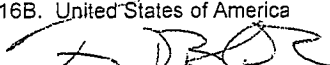
PAGE 4 OF PAGES 5

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER: 11 Sep 2005
 CONTRACT NO. (if any): QA133005CQ1035
 ORDER NO.: 0023

ITEM NO.	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QTY. ACCEPT. (g)
0007	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 7 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009 5020000.25130000 \$ 5,985.13</p>	1	JB	5,985.13	5,985.13	

DARL

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. Contract ID Code	Page 1 of Pages 4
2. Amendment/Modification No. 0001		3. Effective Date Feb 15, 2006		4. Requisition/Purchase Req. No. NWWG9500-6-ADM06	
5. Project No. (if applicable)					
6. Issued By SCIENCE APPLICATIONS INTERNATIONAL CORP RESOURCES BRANCH /W/OPS53 BUILDING 1100 STENNIS SPACE CENTER, MS 39529-6000 TIMOTHY D. BLACK 228-688-2382		Code WG953023		7. Administered By (if other than Item 6) SEE BLOCK 6	
8. Name and Address of Contractor (No., Street, County, and Zip Code) SCIENCE APPLICATIONS INTERNATIONAL CORP 10260 CAMPUS POINT DRIVE MAIL STOP G2 SAN DIEGO CA 921211578		Vendor ID: 00004157 DUNS: 148095086 CAGE: 0T5L1		(X) 9A. Amendment of Solicitation No. 9B. Date (See Item 11) 10A. Modification of Contract/Order No. QA1330-05-CQ-1035 0023 10B. Date (See Item 13) Sep 21, 2005	
Code		Facility Code			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. Accounting and Appropriation Data (if required) See Schedule \$ US 0.00					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
(X) A. This change order is issued pursuant to: (Specify authority) The changes set forth in item 14 are made in the Contract Order No. in item 10A.					
X B. The above numbered Contract/Order is modified to reflect the administrative changes (such as changes in paying office, appropriation date, etc.) Set fourth item 14, pursuant to the authority of FAR 43.103 (b)					
C. This supplemental agreement is entered into pursuant to authority of:					
D. Other (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. Description of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
1. The purpose of this modification is to consolidate this effort into one contract line item (CLIN) to ease administration. CLIN 0008 is added to accomplish this objective.					
2. See page 2 and 3 for the details of these changes.					
3. The total value of this task order is unchanged.					
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. Name and Title of Signer (Type or Print) Amanda Carey Contracts Rep.			16A. Name and title of Contracting Officer (Type or Print) TIMOTHY D. BLACK Contracting Officer tim.black@noaa.gov		
15B. Contractor/Officer  (Signature of person authorized to sign)			15C. Date Signed 02/16/06		16B. United States of America  (Signature of Contracting Officer)
					16C. Date Signed Feb 15, 2006

SCHEDULE

Item No.	Supplies/Services	Quantity	Unit	Unit Price	Amount
0001	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 1 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009502 0000.25130000 US\$ 5,230.04</p>	1	JB	5,230.04	5,230.04
0002	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 2 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009502 0000.25130000 US\$ 12,710.80</p>	1	JB	12,710.80	12,710.80
0003	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 3 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009502 0000.25130000 US\$ 5,351.07</p>	1	JB	5,351.07	5,351.07

SCHEDULE

Item No.	Supplies/Services	Quantity	Unit	Unit Price	Amount
0004	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 4 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009502 0000.25130000 US\$ 36,907.37</p>	1	JB	36,907.37	36,907.37
0005	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 5 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009502 0000.25130000 US\$ 399.40</p>	1	JB	399.40	399.40
0006	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 6 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009502 0000.25130000 US\$ 10,559.38</p>	1	JB	10,559.38	10,559.38

SCHEDULE

Item No.	Supplies/Services	Quantity	Unit	Unit Price	Amount
0007	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 7 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED].</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009502 0000.25130000 US\$ 8,263.28</p> <p>CONSOLIDATED CLIN</p>	1	JB	8,263.28	8,263.28
0008	<p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 1-7 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-06/30/2006.</p> <p>The fixed fee for this CLIN is [REDACTED].</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009502 0000.25130000 US\$ 64,544.43</p>	1	JB	64,544.43	64,544.43

DANL

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. Contract ID Code

Page of Pages

1

2

2. Amendment/Modification No.

0002

3. Effective Date

Jul 18, 2006

4. Requisition/Purchase Req. No.

5. Project No. (if applicable)

6. Issued By

Code WG953023

7. Administered By (If other than Item 6)

Code

NATIONAL DATA BUOY CENTER
RESOURCES BRANCH /W/OPS53

BUILDING 1100

STENNIS SPACE CENTER, MS 39529-6000

KURT C. WEILBAECHER 228-688-2825

SEE BLOCK 6

8. Name and Address of Contractor (No., Street, County, and Zip Code)

SCIENCE APPLICATIONS INTERNATIONAL CORPO Vendor ID: 00004157

10260 CAMPUS POINT DRIVE DUNS: 148095086

MAIL STOP G2

SAN DIEGO CA 921211578

CAGE: 0T5L1

(X)

9A. Amendment of Solicitation No.

9B. Date (See Item 11)

10A. Modification of Contract/Order No.

QA1330-05-CQ-1035 0023

10B. Date (See Item 13)

Sep 21, 2005

Code

Facility Code

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers ☐ is extended ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. Accounting and Appropriation Data (if required)

See Schedule \$ US 0.00

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. This change order is issued pursuant to: (Specify authority) The changes set forth in item 14 are made in the Contract Order No. in item 10A.

B. The above numbered Contract/Order is modified to reflect the administrative changes (such as changes in paying office, appropriation date, etc.) Set forth item 14, pursuant to the authority of FAR 43.103 (b)

X C. This supplemental agreement is entered into pursuant to authority of:

Change within scope by mutual agreement between parties

D. Other (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 1 copies to the issuing office.

14. Description of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

1. The purpose of this modification is extend the performance period of CLIN 0008 to 08/31/2006.

2. The total value of this task order is unchanged.

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. Name and Title of Signer (Type or Print)

BONNIE L. BARNUM
CONTRACTS Representative

16A. Name and title of Contracting Officer (Type or Print)

KURT C. WEILBAECHER 228-688-2825
Contracting Officer
kurt.weilbaecher@noaa.gov

15B. Contractor/Officer

Bonnie L. Barnum
(Signature of person authorized to sign)

15C. Date Signed

7/18/06

16B. United States of America

Kurt C. Weilbaecher
(Signature of Contracting Officer)

16C. Date Signed

7-19-06

SCHEDULE

Item No.	Supplies/Services	Quantity	Unit	Unit Price	Amount
0008	<p>CONSOLIDATED CLIN</p> <p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 1-7 of the attached Task Management Plan (TMP). The performance period for this task order is 09/19/2005-08/31/2006.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHAPRH06040102000.200600009502 0000.25130000 US\$ 64,544.43</p>	1	JB	64,544.43	64,544.43

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. Contract ID Code
Page 1 of Pages 2

2. Amendment/Modification No. 0003	3. Effective Date Aug 31, 2006	4. Requisition/Purchase Req. No.	5. Project No. (if applicable)
6. Issued By NATIONAL DATA BUOY CENTER RESOURCES BRANCH /W/OPS53 BUILDING 1100 STENNIS SPACE CENTER, MS 39529-6000 KURT C.WEILBAECHER 228-688-2825		7. Administered By (If other than Item 6) SEE BLOCK 6	
8. Name and Address of Contractor (No., Street, County, and Zip Code) SCIENCE APPLICATIONS INTERNATIONAL CORPO 10260 CAMPUS POINT DRIVE MAIL STOP G2 SAN DIEGO CA 921211578		9A. Amendment of Solicitation No. 9B. Date (See Item 11) 10A. Modification of Contract/Order No. QA1330-05-CQ-1035 0023 10B. Date (See Item 13) Sep 21, 2005	
Code		Facility Code	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers ☐ is extended ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. Accounting and Appropriation Data (if required)
See Schedule \$ US 0.00

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. This change order is issued pursuant to: (Specify authority) The changes set forth in item 14 are made in the Contract Order No. in item 10A.
B. The above numbered Contract/Order is modified to reflect the administrative changes (such as changes in paying office, appropriation date, etc.) Set fourth item 14, pursuant to the authority of FAR 43.103 (b)
X C. This supplemental agreement is entered into pursuant to authority of: Change within scope by mutual agreement between parties
D. Other (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 1 copies to the issuing office.

14. Description of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

- The purpose of this modification is to extend the period of performance of CLIN 0008 to 03/31/2007 at no additional cost.
- All other terms and conditions remain the same.

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.	
15A. Name and Title of Signer (Type or Print) BONNIE BARNUM CONTRACTS REPRESENTATIVE	16A. Name and title of Contracting Officer (Type or Print) MARILYN CLARK Contracting Officer marilyn.clark@noaa.gov
15B. Contractor/Officer Bonne L. Barnum (Signature of person authorized to sign)	16B. United States of America Marilyn Clark (Signature of Contracting Officer)
15C. Date Signed 8/21/06	16C. Date Signed Aug 31, 2006

SCHEDULE

Item No.	Supplies/Services	Quantity	Unit	Unit Price	Amount
0008	<p>CONSOLIDATED CLIN</p> <p>TASK ORDER 05-TOS-23 - NDBC Wave Measurement Systems</p> <p>Provide all labor and materials to accomplish Task 1-7 of the attached Task Management Plan (TMP).</p> <p>The performance period for this task order is 09/19/2005-03/31/2007.</p> <p>The fixed fee for this CLIN is [REDACTED]</p> <p>CPFF</p> <p>Accounting and Appropriation Data: 14.05.4BM1JHA.PRH.06.040102000.2006000095 020000.25130000 US\$ 64,544.43</p>	1	JB	64,544.43	64,544.43

Title of Task Order:	NDBC Wave Measurement Systems
NDBC Branch:	Observing Systems Branch OPS52
Performance Period:	1 Sep 2005 – 30 June 2006
Task Order Type: (FFP or CPFF)	CPFF
Purpose: (How this TO relate's to NDBC's Mission or What Problem needs to be solved)	The purpose of this task order is to support development and enhancements of NDBC wave measurement systems.
Background:	<p>Due to the reliability problems of the laser wave height sensors, measuring waves from NDBC's C-MAN stations is always problematic. Recently, many current meters (ADCP or other acoustic current meters) on the market are capable of measuring directional waves when installed on fixed structures. The major problem of adopting these sensors for NDBC platforms is that their directional wave formats are usually different from NDBC's. To solve this problem, we can either ask the manufacturers to change their formats to match NDBC's (at least, as close as possible) or make necessary modifications (both onboard and shoreside) by ourselves. This has to be considered seriously when selecting the sensor to use. As for the design, install, and evaluate this COTS directional wave system, they are relatively straightforward.</p> <p>Although NDBC's directional wave data are determined from discus buoys based on the slope-following principle, many engineers and scientists think these systems can also determined directional wave information from the particle-following principle. Because the pitch and roll angles are relatively small at low frequencies, it is possible that the directional wave data at low frequencies (specially the long-swell range) from the particle-following principle are more accurate/reliable than those from the slope-following principle due to relatively high signal to noise ratios. NDBC plans to further verify this. If it works as expected, we will consider the particle-following principle or a hybrid technique for NDBC directional wave systems.</p> <p>Due to its small size and low cost (both initial and life-cycle costs), the angular-rate sensor (ARS) configuration are preferred for NDBC's operational directional wave systems. However, the low-frequency wave directions and related directional spreads (especially</p>

	<p>for areas with frequent long-swells) may not be as reliable as those at higher frequencies. In order to have much higher confidence on the ARS system, a study is needed using both time series data and real-time data collected by NDBC buoys.</p> <p>Since technology progresses so fast, new and advanced wave sensors, systems, algorithms, and processing are available in a very fast pace. To make NDBC wave systems better and up-to-date, we need to use various ways (market research, published articles, technical and professional contacts, etc.) to find new and advanced wave technology all the time. Then, we need to evaluate if it is suitable for NDBC's wave systems and operations.</p>
Scope of Effort:	<p>This task order will cover some of the developmental and study efforts for NDBC directional wave measurement systems:</p> <ul style="list-style-type: none"> - Select, design, install, and evaluate a COTS directional wave sensors installed on a selected NDBC C-MAN station. - Study the surface-following and particle-following directional wave processing techniques for determining directional wave data. - Study the performance of ARS wave system, especially at the low frequency range. - Conduct investigation and study on new/advanced/improved wave technology, sensors, systems, processing, etc.
Tasks:	<ol style="list-style-type: none"> 1. Select and purchase a COTS directional wave sensor suitable for a selected NDBC C-MAN station. 2. Make necessary software, format, and data processing modifications so the data from the new COTS sensor can be processed and handled by both NDBC onboard and shoreside systems. Note that: it is desired that this modification will be flexible and adoptable so adoption of other COTS sensors and wave formats in the future can be easier. 3. Design the installation of the selected COTS directional wave sensor on the selected C-MAN station. 4. Install the COTS directional wave sensor on the selected C-MAN station.

	<p>5. Monitor the performance of the directional wave data.</p> <p>6. Study the surface-following and particle-following directional wave processing techniques using the time series data collected by NDBC at the Harvest buoy (46024) and Duck buoy (44DUK).</p> <p>7. Study the performance of ARS wave systems, especially at the low frequency range.</p> <p>8. Investigate and improve NDBC wave measurement systems. Details will be provided later as more wave system design and improvements are conducted and new technology is available.</p>
Assumptions/ Constraints (Security, Safety, Accessibility, etc...)	<p>- NDBC/USCG will arrange the ship support for the COTS wave system installation.</p> <p>- Selection of the COTS sensor and C-MAN station for field installation will be mutually agreed upon by both NDBC and NTSC.</p> <p>- NDBC and NTSC employees will work closely together as a team so NDBC wave program will benefit from the combined expertise and resources. The joint efforts will include, but not limit to, exchanging ideas, sharing information (such as wave model results from other organizations, wave processing algorithms, etc.), making sensor selection, selecting sites for wave systems, adopting new technology/sensors, etc.</p>
Deliverables:	<p>1. System design review of a COTS directional wave system for a selected NDBC C-MAN site (including onboard processing, shoreside processing, and sensor integration and installation).</p> <p>2. Design document and test report of the data handling and display (including both NDBC onboard and shoreside data systems).</p> <p>3. Design package for installation of the COTS wave sensor on the C-MAN site.</p> <p>4. Test plan and report on lab and other related tests.</p> <p>5. Installation of the COTS directional wave system.</p> <p>6. Performance report on the COTS directional wave systems.</p>

	<p>7. Monthly and final reports on the study of the surface-following and particle-following directional wave processing techniques.</p> <p>8. Monthly and final reports on the ARS performance evaluation and analysis.</p> <p>9. Recommendations, schedules, implementation, and support efforts for potential new and improvements of wave systems.</p> <p>10. Bi-weekly performance reports which summarizing both the actual and budgeted cost, schedule, and performance information from an earned value management (EVM) system and present the results of the earned value analysis.</p>
GFE/GFI:	<p>GFE/GFI is available to support this effort. GFE/GFI lists can be found by referring to Section J of the contract. The Government requests your technical proposal state whether you intend to utilize the available GFE/GFI. Your cost proposal shall reference whether you will use GFE/GFI and the cost impact of that decision.</p> <p>NDBC will provide algorithms for conversions of different directional wave information (e.g., co-quad spectra, Fourier coefficients, directional parameters, or direction-frequency distributions).</p>
Program Objectives/ Possible Performance Measures:	<p>The Government requires this task order have performance-based measures that align with the Statement of Objectives and Program Goals contained in this solicitation. The contractor is required to provide a list of proposed measures for this task order with goals for level of service and the outcomes for achieving/not achieving those goals.</p>
Inspection/Acceptance:	<p>Final inspection and acceptance of all work performed, reports generated, and other deliverables will be conducted by the COTR or other designee.</p>
Travel:	<p>Travel is required to support this task order. The contractor shall provide cost estimates for all travel in the cost proposal and the travel expenses must comply with the Federal Travel Regulations.</p>
Required information and/or submittals to be included in the required Task Management Plan (TMP):	<ol style="list-style-type: none"> 1. An Approach and Management Plan for tasks identified in this task order. 2. Implementation Plan (IP) <ol style="list-style-type: none"> a. Work Breakdown Structure (WBS)

	<p>b. Performance Specifications and metrics c. Cost, Schedule and Performance Metrics</p> <p>3. Task Order Cost Proposal.</p> <p>4. Provide cost and resource breakdown based on tasks listed above.</p>
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SAIC TASK MANAGEMENT PLAN

**TASK ORDER RFP SOW: 05-TOS-23 NDBC Wave Measurement Systems,
Modification 2-v1**

PERIOD OF PERFORMANCE: Award Date to June 30, 2006
Modification 2: July 1, 2006 to August 31, 2006

TO TYPE: CPFF

1.0 SCOPE, STATEMENT of WORK AND TECHNICAL/MANAGEMENT APPROACH:

1.1 *General Scope:*

This task order will address the design issues related to integrating a COTS directional wave system into C-MAN sites. The scope of the task includes all activities beginning with sensor selection through certification testing.

Two studies will be conducted; one for surface following and particle following directional wave processing, and the second will study performance of the ARS system with emphasis on low frequency swells.

Our initial estimate for required resources to complete detail wave analyses in subtasks 5 and 7 has been reduced due to negotiations with NDBC. Therefore, we plan to complete the structure of the work as outlined below, however the level of effort will be moderated.

1.2 *Statement of Work:*

[REDACTED]

[REDACTED]

[REDACTED]

SAIC TASK MANAGEMENT PLAN

**TASK ORDER RFP SOW: 05-TOS-23 NDBC Wave Measurement Systems,
Modification 2-v1**

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SAIC TASK MANAGEMENT PLAN

**TASK ORDER RFP SOW: 05-TOS-23 NDBC Wave Measurement Systems,
Modification 2-v1**

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SAIC TASK MANAGEMENT PLAN

**TASK ORDER RFP SOW: 05-TOS-23 NDBC Wave Measurement Systems,
Modification 2-v1**

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SAIC TASK MANAGEMENT PLAN

TASK ORDER RFP SOW: 05-TOS-23 NDBC Wave Measurement Systems, Modification 2-v1

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1.2 *WBS layout (See attached file)*

The WBS for this task order uses the template developed by SAIC for this contract year. The tasks are organized by deliverable. The tasks required to complete the deliverables are contained under the deliverable summary task.

2.0 ASSUMPTIONS and/or DEVIATIONS:

2.1 *Assumptions:*

[REDACTED]

[REDACTED]

2.2 *Deviations:*

SAIC TASK MANAGEMENT PLAN

TASK ORDER RFP SOW: 05-TOS-23 NDBC Wave Measurement Systems, Modification 2-v1

3.0 SCHEDULE:

The gantt chart for this task order has not been scheduled. We will work with NDBC after the acceptance of this task order to schedule each task. The deliverable dates below are what we understand to be NDBC target dates.

3.1 Program Performance Schedule:

A work breakdown structure is shown in the attachments.

3.2 Delivery Schedule:

The following are estimated dates based on a September 12th start date. After project is started we will coordinate with NDBC to make any necessary schedule adjustments.

Deliverables/Submittals	Due Date
1) System Design Review (SDR)	Done
2) Design document & test report for data handling and display (final version)	06.30.06
3) Design package for COTS wave sensor installation on a C-MAN site	Done
4) Test plan and report for lab & related tests	Done
5) Installation of COTS directional wave system	05.12.06
6) COTS Directional wave performance report	Done
7) Monthly & final report for study of directional wave processing techniques	Done
8) Monthly & final report for ARS system Performance	Done
9) Recommendations, schedules, support and implementation of new and improved wave systems	06.30.06
10) Bi-weekly performance reports	Reports starting 2 weeks after SAIC acceptance of task order

4.0 DELIVERABLES:

Deliverables/Submittals	Acceptance Criteria
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SAIC TASK MANAGEMENT PLAN

TASK ORDER RFP SOW: 05-TOS-23 NDBC Wave Measurement Systems, Modification 2-v1

Deliverables/Submittals	Acceptance Criteria
1) System Design Review (SDR)	Upon completion
2) Design document & test report for data handling and display	Upon submission (one NDBC review)
3) Design package for COTS wave sensor installation on a C-MAN site	Upon submission (one NDBC review)
4) Test plan and report for lab & related tests	Upon submission (one NDBC review)
5) Installation of COTS directional wave system	Upon completion
6) COTS Directional wave performance report	Upon submission (one NDBC review)
7) Monthly & final report for study of directional wave processing techniques	Upon submission
8) Monthly & final report for ARS system Performance	Upon submission
9) Recommendations, schedules, support and implementation of new and improved wave systems	Upon submission
10) Bi-weekly performance reports	Upon submission

PERFORMANCE SPECIFICATIONS AND METRICS:

[illegible]

SAIC TASK MANAGEMENT PLAN

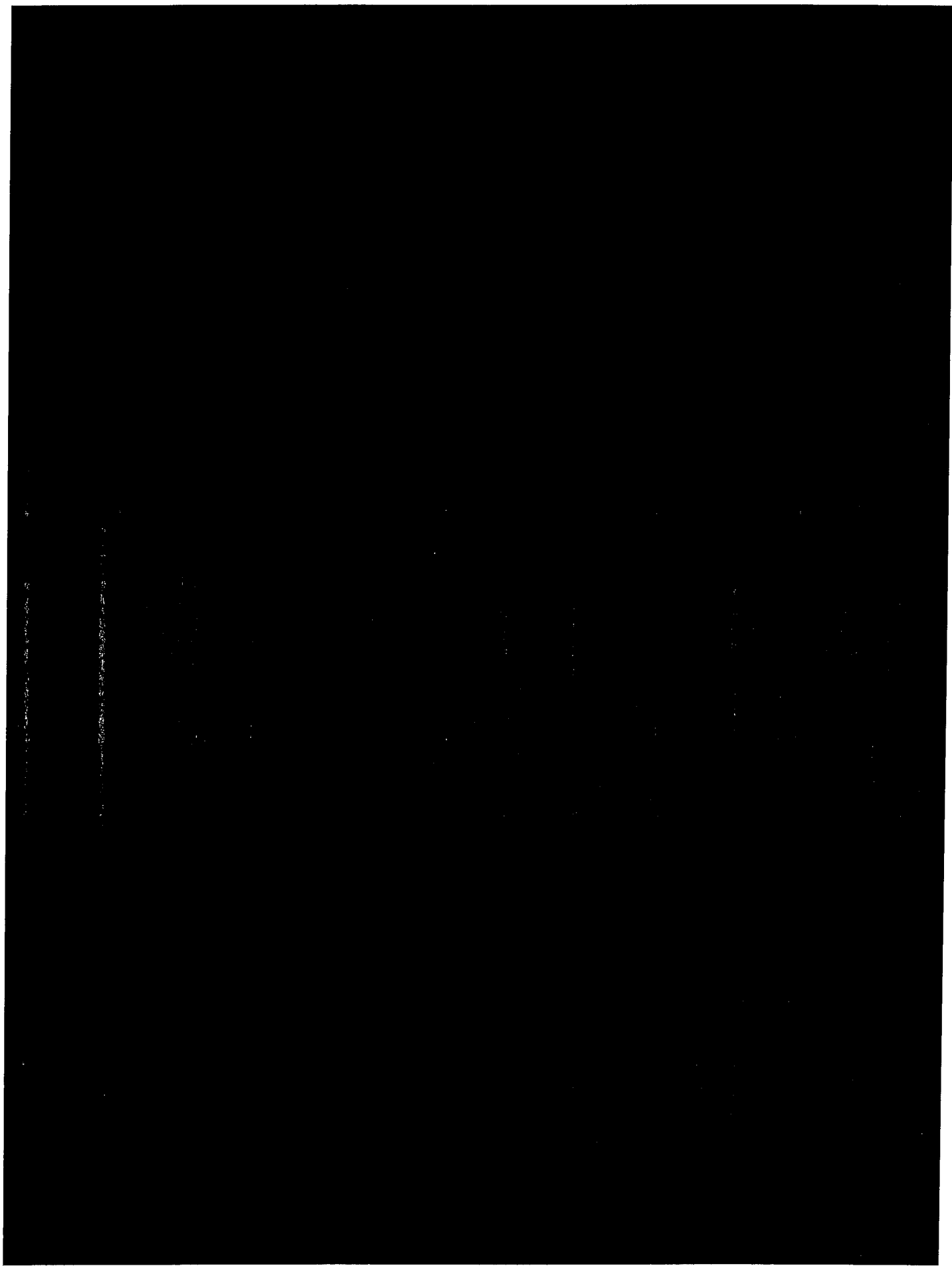
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Modification 2-v1**

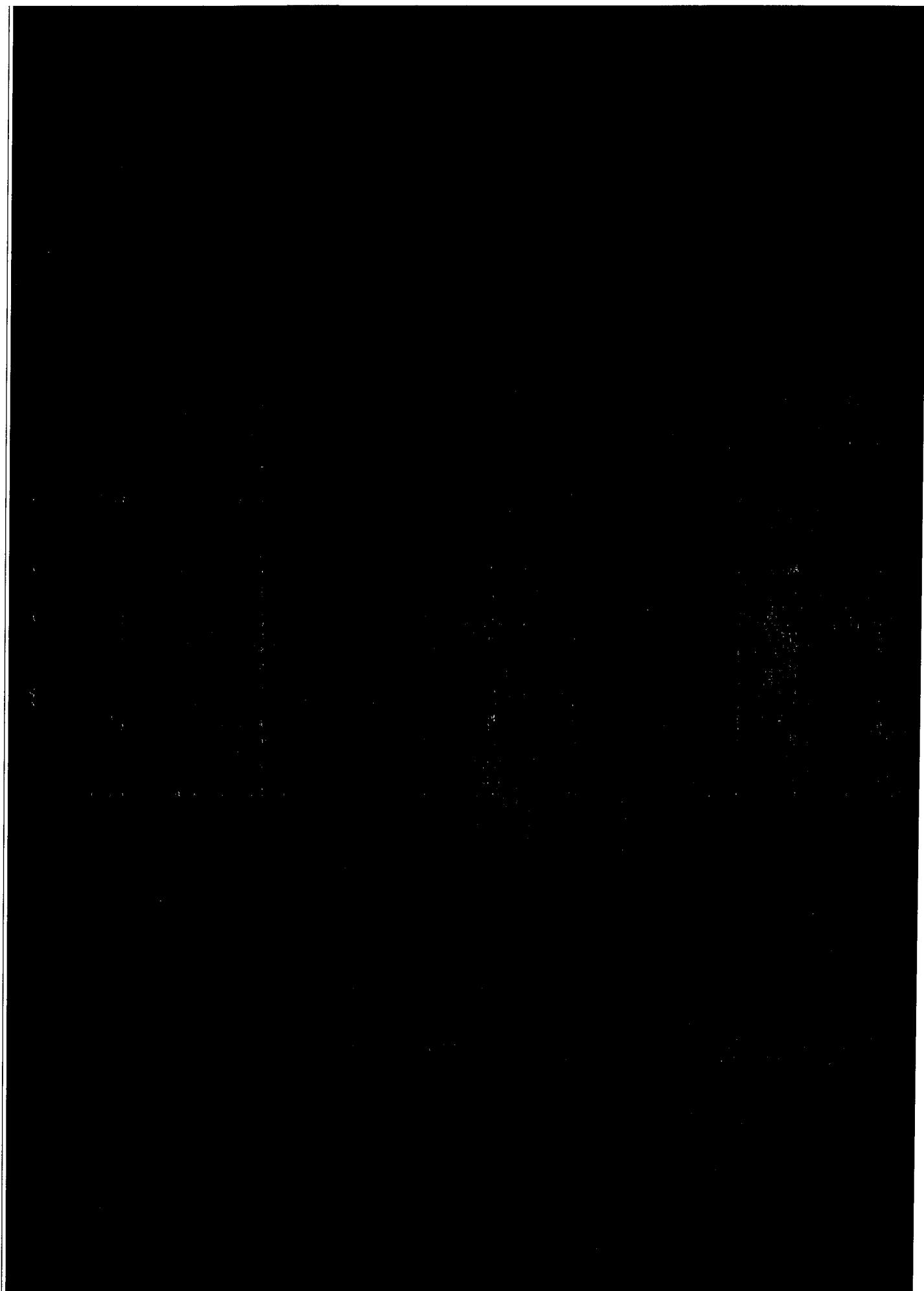
6.0 KEY PERSONNEL: The following personnel are considered key for this TO:

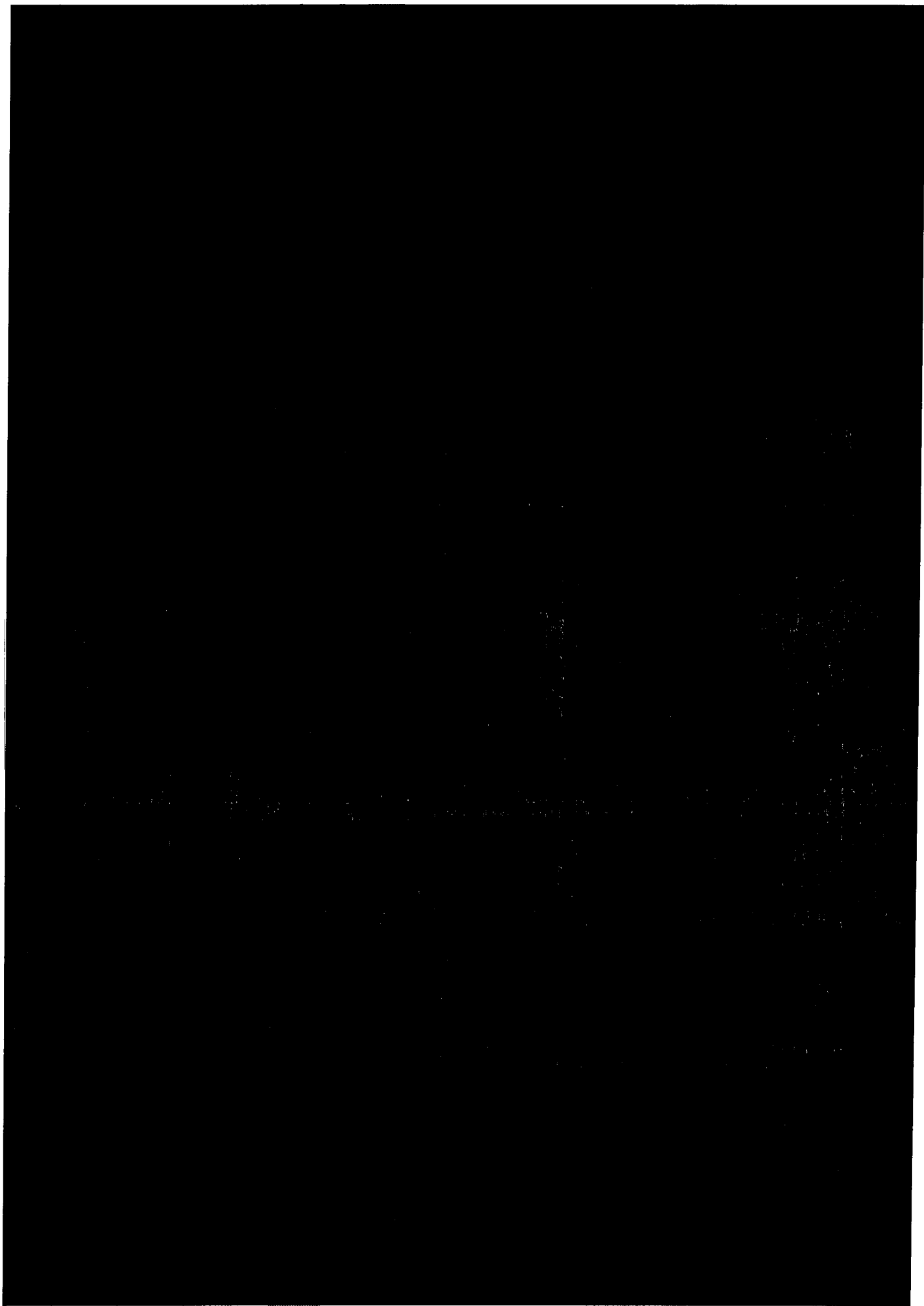
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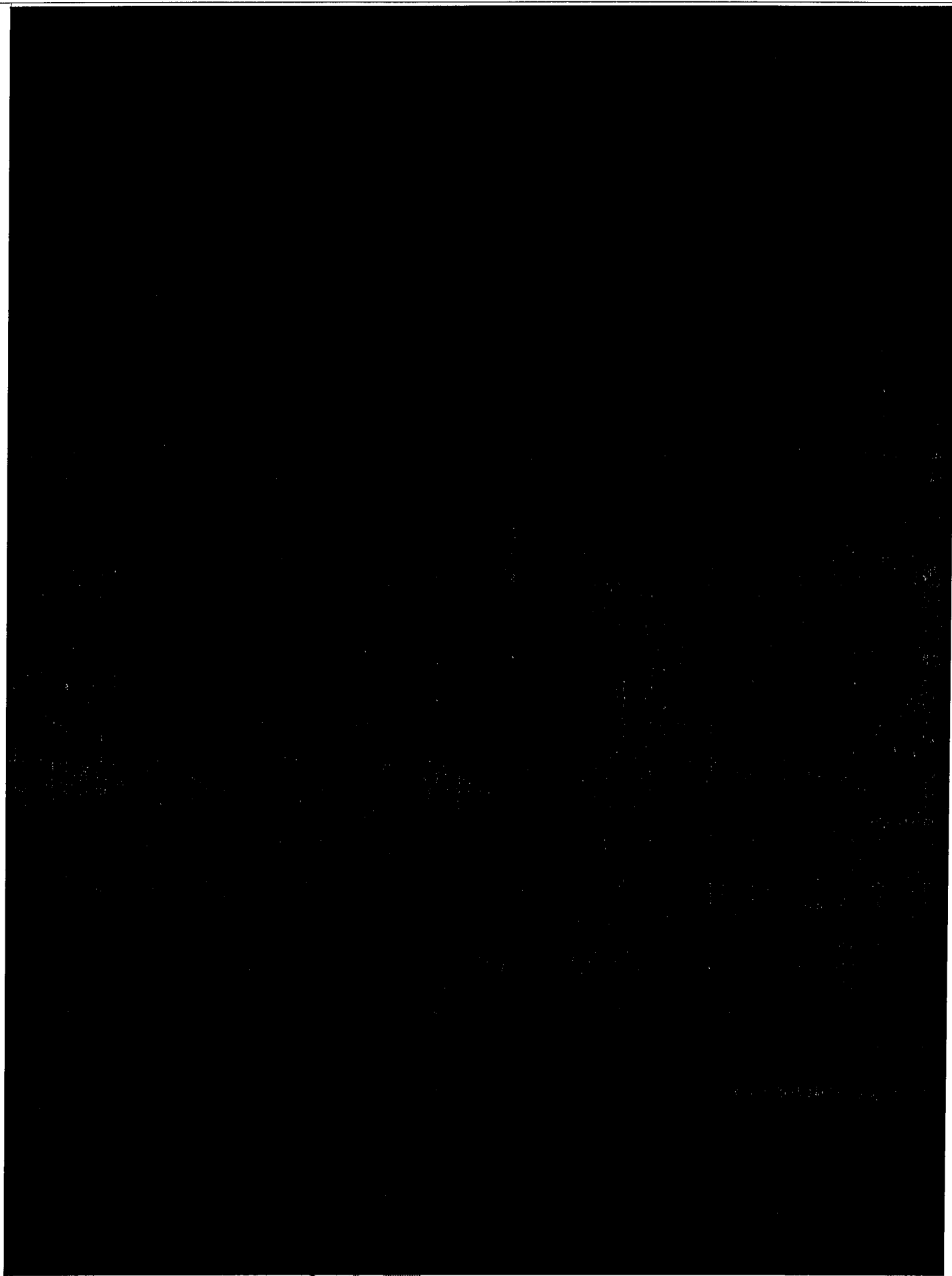
7.0 COST PROPOSAL: See Attached

8.0 PAYMENT TERMS: Invoices shall be submitted upon completion of each SAIC accounting period. Payment shall be made within 30 days.









TASK ORDER #23
NDBC Wave Measurement Systems
POP: 09/19/05-06/30/06

DIRECT LABOR HOURS



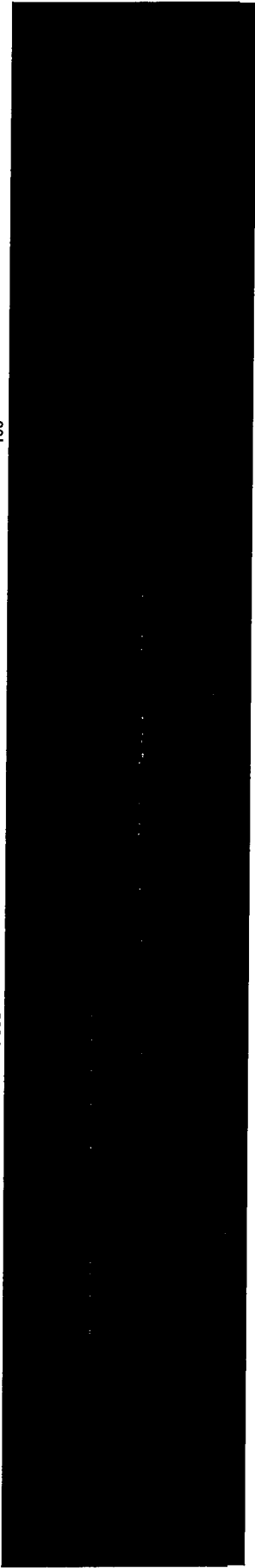
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#23

From: 7/1/2005
To: 6/30/2006

Travel

From	To	Purpose	Conference/Training Fees	Airfare	# of Trips	No. of People Per Trip	Days (Per trip)	Nights (Per Trip)	No. of Cars	PUV mileage/RT	Lodging Rate	Meal Rate	Total	Conference/Training Totals
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Date: Wed 9/21/05

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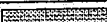









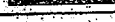

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Write COTS sensor green tag test

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